



Plasmavision™

PDS4213W-H / PDS4214W-S
PDS4213E-H / PDS4214E-S

SERVICE MANUAL

5

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TROUBLESHOOTING USING LED AND OSD

1. Display

(1) OSD

Two kinds of error messages are displayed on the screen, and the power is turned off 10 sec later.

(2) LED

LED error is displayed continuously after the power is turned off.

2. Error types and check points

(1) OSD

On screen display	Cause	Check point
ERROR MESSAGE CONDITION 1	Fan protector operated	<ul style="list-style-type: none"> • Fan • AC/DC power unit • DC/DC power PCB • Main/Digital PCB
ERROR MESSAGE CONDITION 2	Temperature protector operated	<ul style="list-style-type: none"> • Ambient temperature of unit • Main/Digital PCB • Temp. sensor PCB

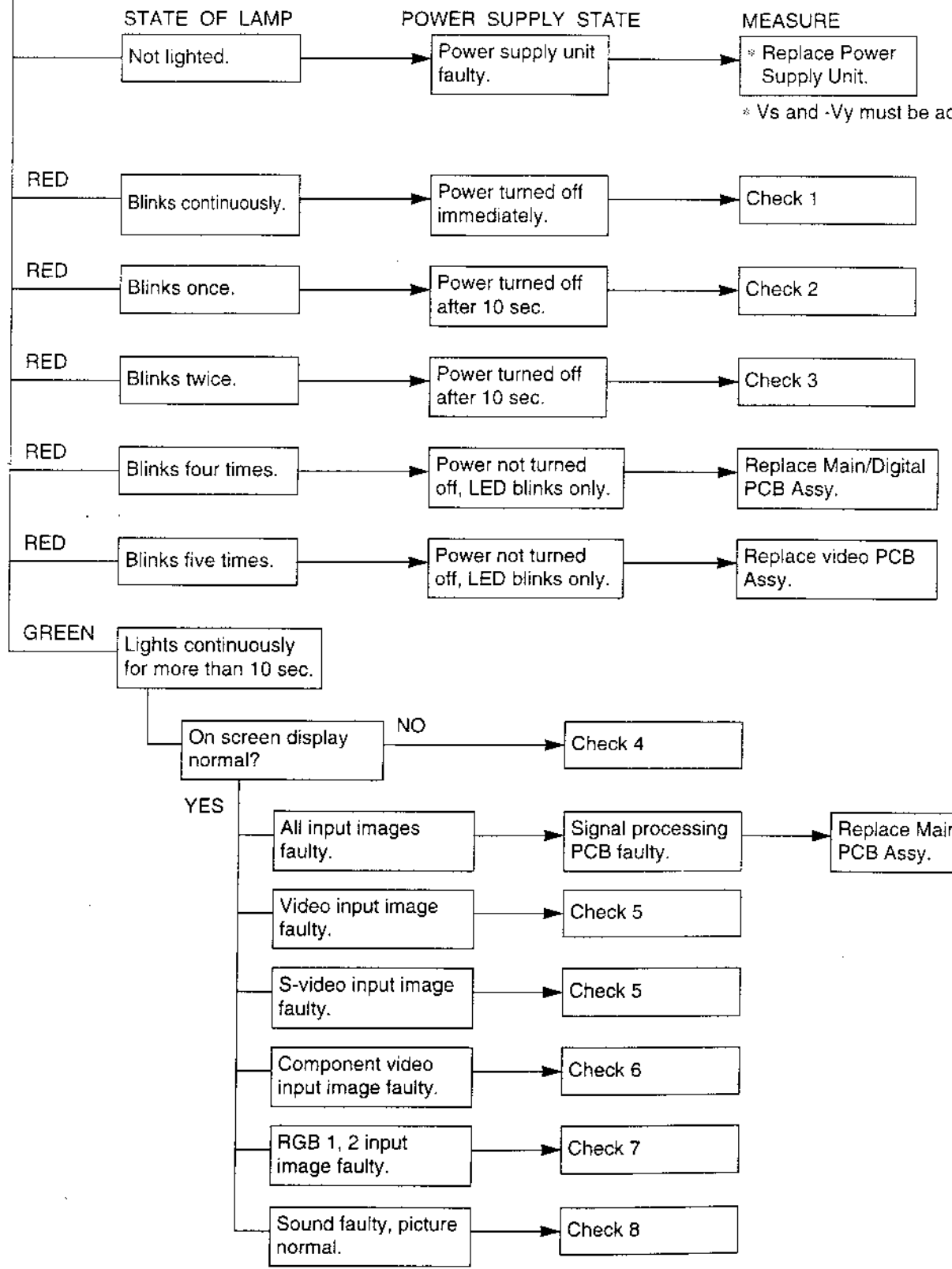
(2) LED

LED lamp display status	Cause	Check point
Steady light (Red)	Stand-by status	_____
Continuous Flashes continuously (Red)	No power Power supply protector operated	<ul style="list-style-type: none"> • AC/DC power unit • DC/DC power PCB • PDP panel
1 time Flashes once in 3 sec. (Red)	Fan protector operated	<ul style="list-style-type: none"> • Fan • AC/DC power unit • DC/DC power PCB • Main/Digital PCB
2 times Flashes twice in 3 sec. (Red)	Temperature protector operated	<ul style="list-style-type: none"> • Ambient temperature of unit • Signal PCB • Temperature sensor PCB
4 times Flashes four times in 3 sec. (Red)	Main/Digital circuit faulty	<ul style="list-style-type: none"> • Main/Digital PCB
5 times Flashes five times in 3 sec. (Red)	Video circuit faulty	<ul style="list-style-type: none"> • Video PCB Assy

TROUBLESHOOTING FLOWCHART

LED lamp blinking

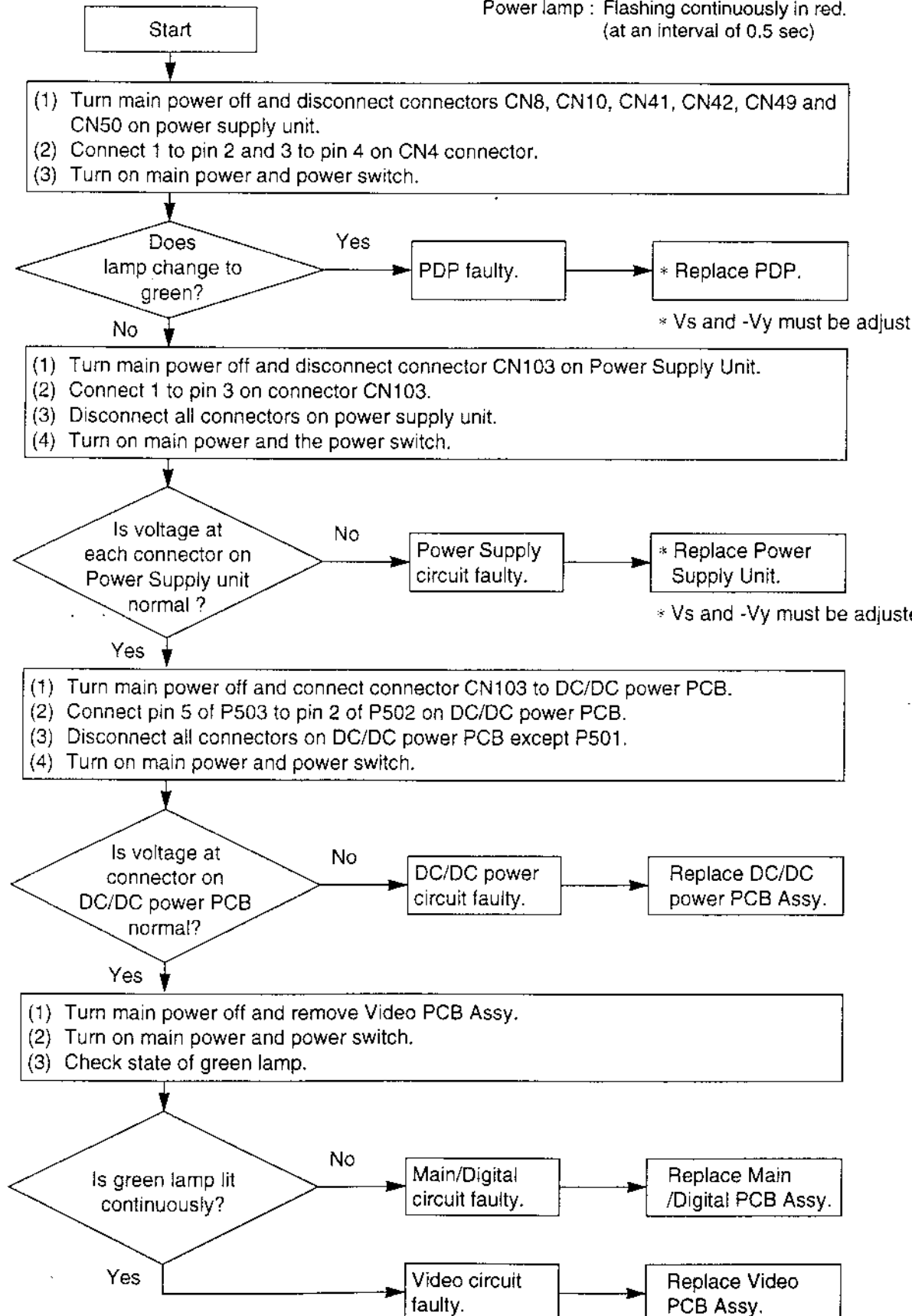
Turn power on and check state of lamp.



Check 1

Power supply protector operated

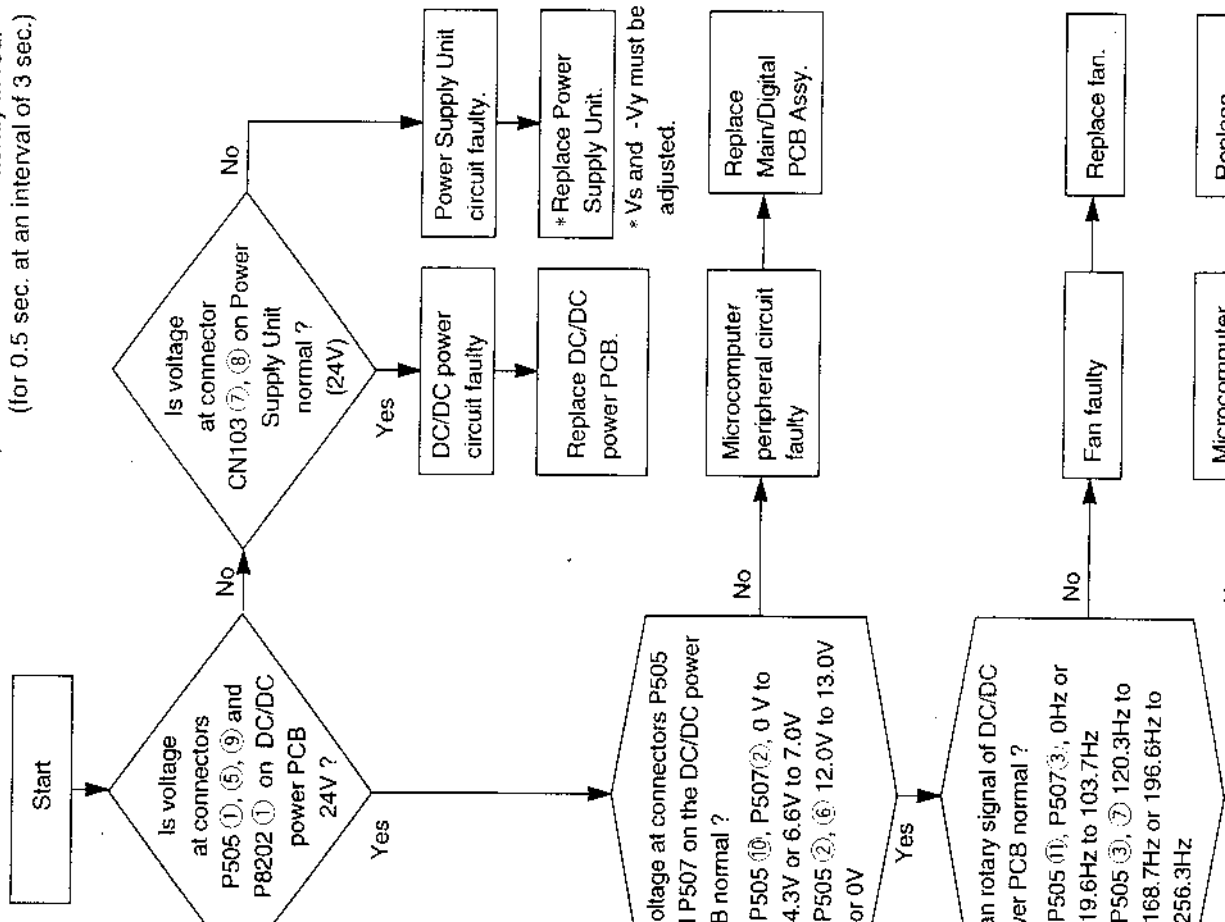
Power lamp : Flashing continuously in red.
(at an interval of 0.5 sec)



Check 2

Fan protector operated

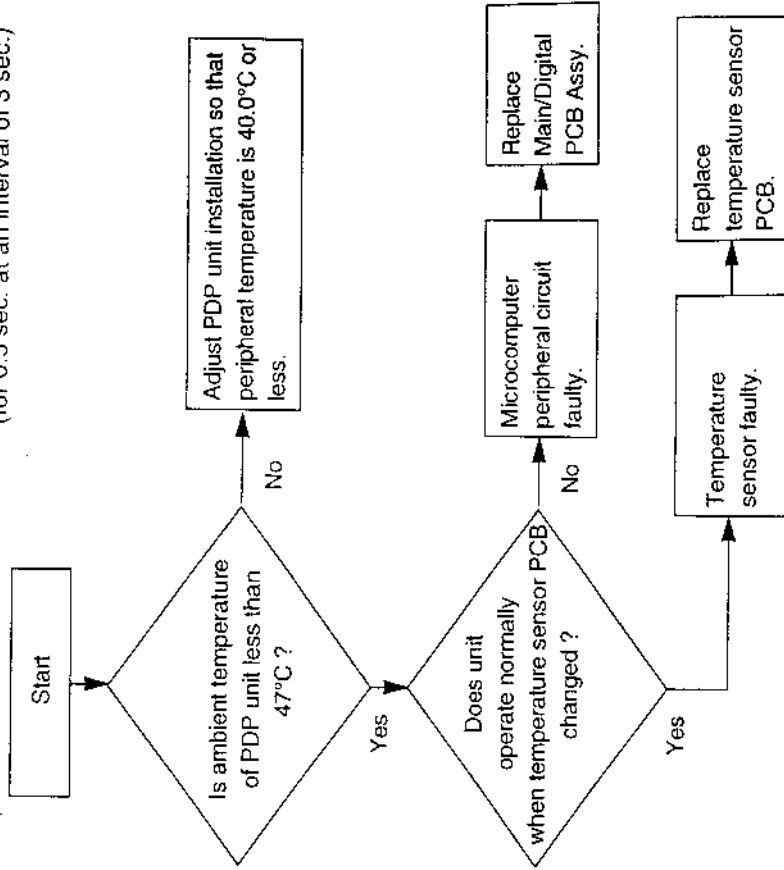
Power lamp: Flashes once intermittently in red.
(for 0.5 sec. at an interval of 3 sec.)



Check 3

Temperature protector operated

Power lamp: Flashes intermittently twice in red.
(for 0.5 sec. at an interval of 3 sec.)



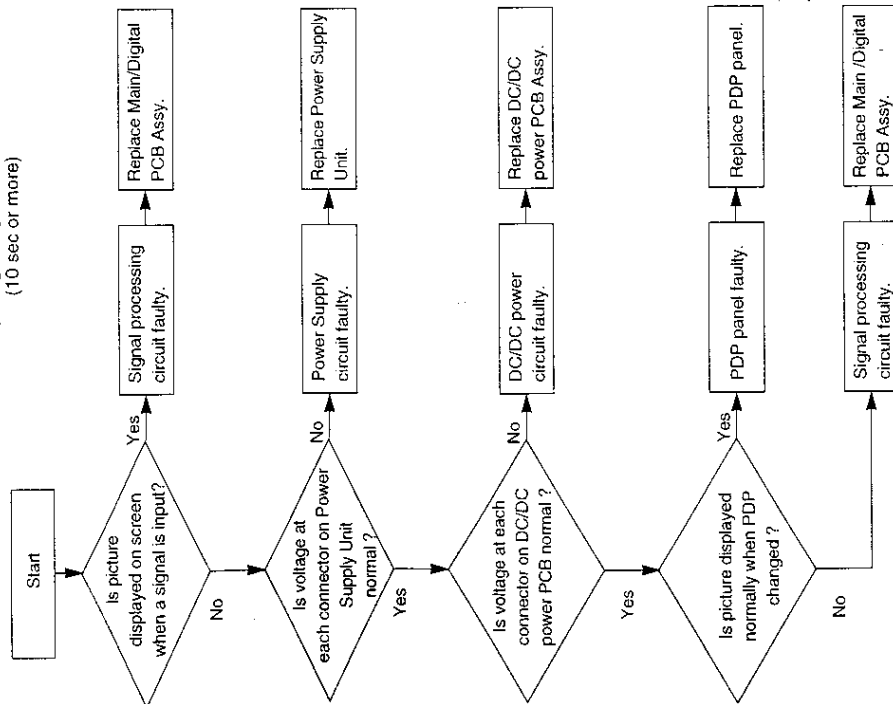
Temperature sensor cooling

The temperature sensor PCB is installed inside a mesh. Turn the power off and cool with a point cooler.

Check 4

OSD is not displayed.

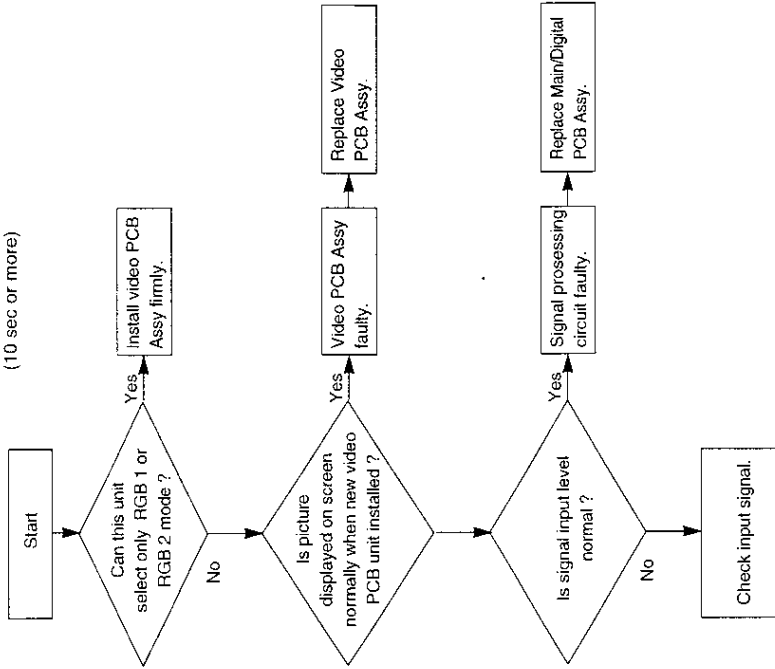
Power lamp : Lighted green.
(10 sec or more)



Check 5

Video/S-video input signals are abnormal.

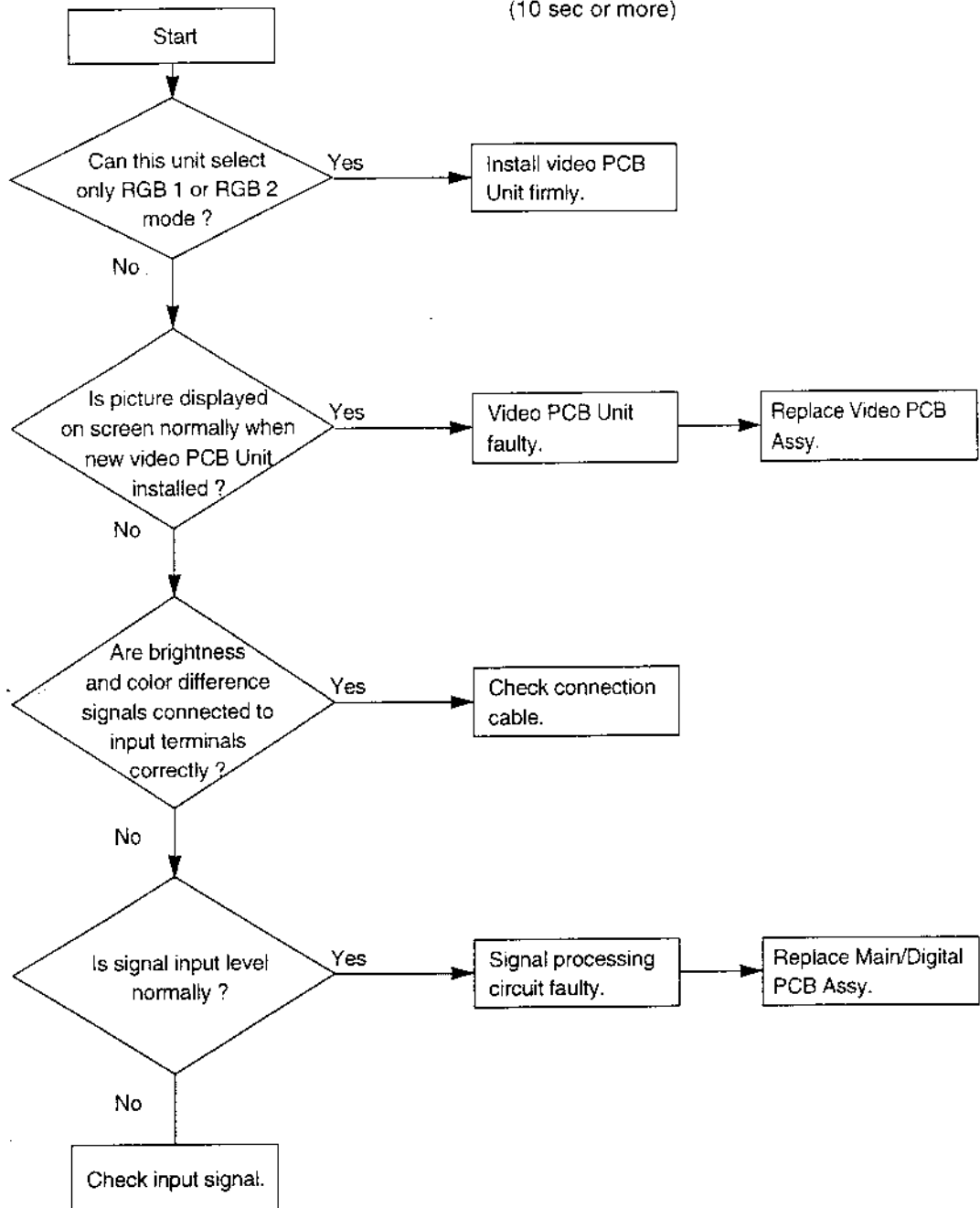
Power lamp : Lighted green
(10 sec or more)



Check 6

Component input signals (Y/Pb/Pr) are abnormal.

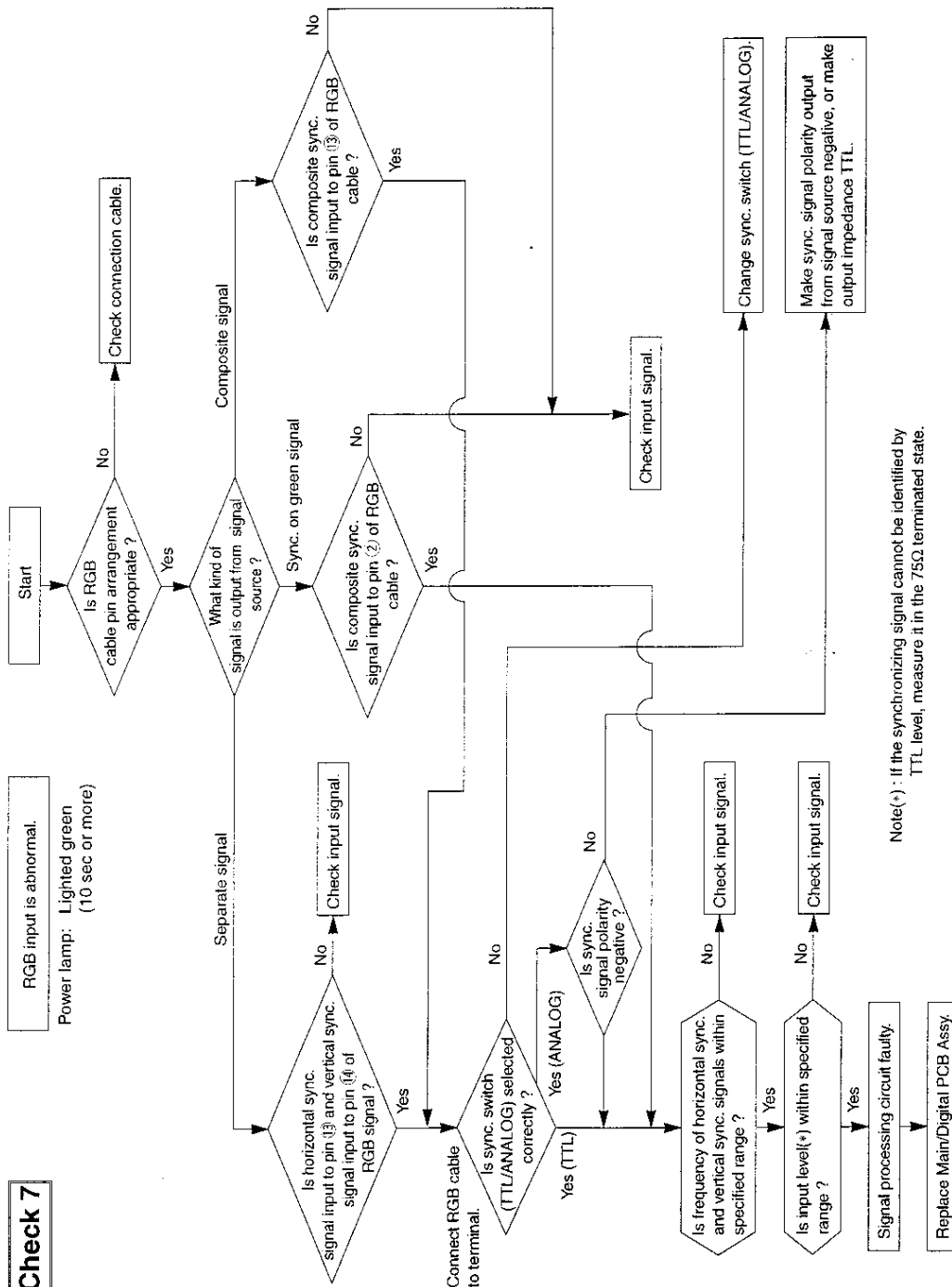
Power lamp : Lighted green
(10 sec or more)



* SYNC. signals are added to the Y signal.

Check 7

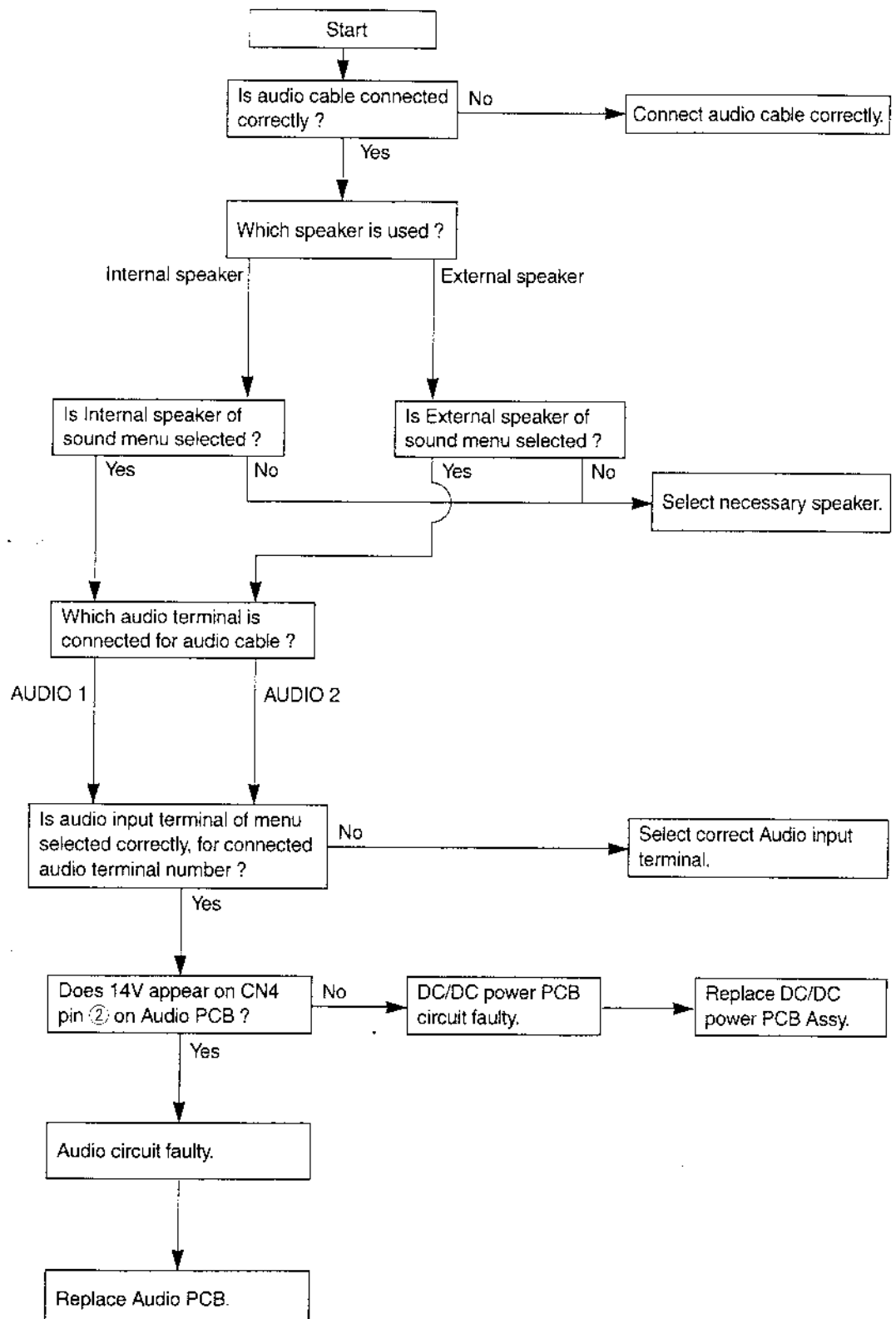
RGB input is abnormal.
Power lamp: Lighted green
(10 sec or more)



Check 8

Sound is abnormal, picture display normal.

Power lamp: Lighted green
(10 sec or more)



VOLTAGE OF EACH CONNECTOR

- Voltage measurement in protect mode**

Because the relay signal is "L" in the protect mode, voltages of Vcc, Vs, and Va are not output. The protect mode is reset only when the power SW is turned off. Therefore, when measuring the voltage, turn off the power SW, then turn on the power by remote control. Remeasure the power supply unit protection operation.

- Relay signal**

Voltages Vcc, Vs and Va are output only when the relay signal of "CN103-3" is "H". When the microcomputer detects an abnormal voltage, these voltages are not output.

- ACON signal**

The ACON signal indicates whether or not AC is supplied. The relay signal is output when the ACON signal is "H".

1. Power Supply Unit (PFW-422)

CN103 Power supply unit			Ground
No.	NAME	SPEC.	
1	Vpr	5V (4.8 to 5.2V)	②
7	Vcc 2	24V (23.7 to 24.3V)	②

CN49 Power supply unit			Ground
No.	NAME	SPEC.	
1	Vcc 1	5V (4.8 to 5.2V)	②
3	Ve	15.52 to 16.48V	②
10	Vs	165.0 to 185.0V	②

CN42 Power supply unit			Ground
No.	NAME	SPEC.	
3	Vsc	116.4 to 123.6V	④
4	-Vy	-150 to -170V	①
6	Vcc 1	5V (4.8 to 5.2V)	①

CN50 Power supply unit			Ground
No.	NAME	SPEC.	
1	Vw	164.9 to 175.1V	③
2	Va	64.35 to 65.65V	③

2. DC/DC Power PCB

P503 DC/DC Power PCB			Ground
No.	NAME	SPEC.	
2	A 5V	5V (4.75 to 5.25V)	①
4	14 V	13.3 to 14.7V	①
5	Vpr	5V (4.8 to 5.2V)	①
8	D 5V	5V (4.75 to 5.25V)	①
9	D 3.3V	3.2 to 3.4V	①
10	A-5V	-5.25 to -4.75V	①

VS AND -VY ADJUSTMENT

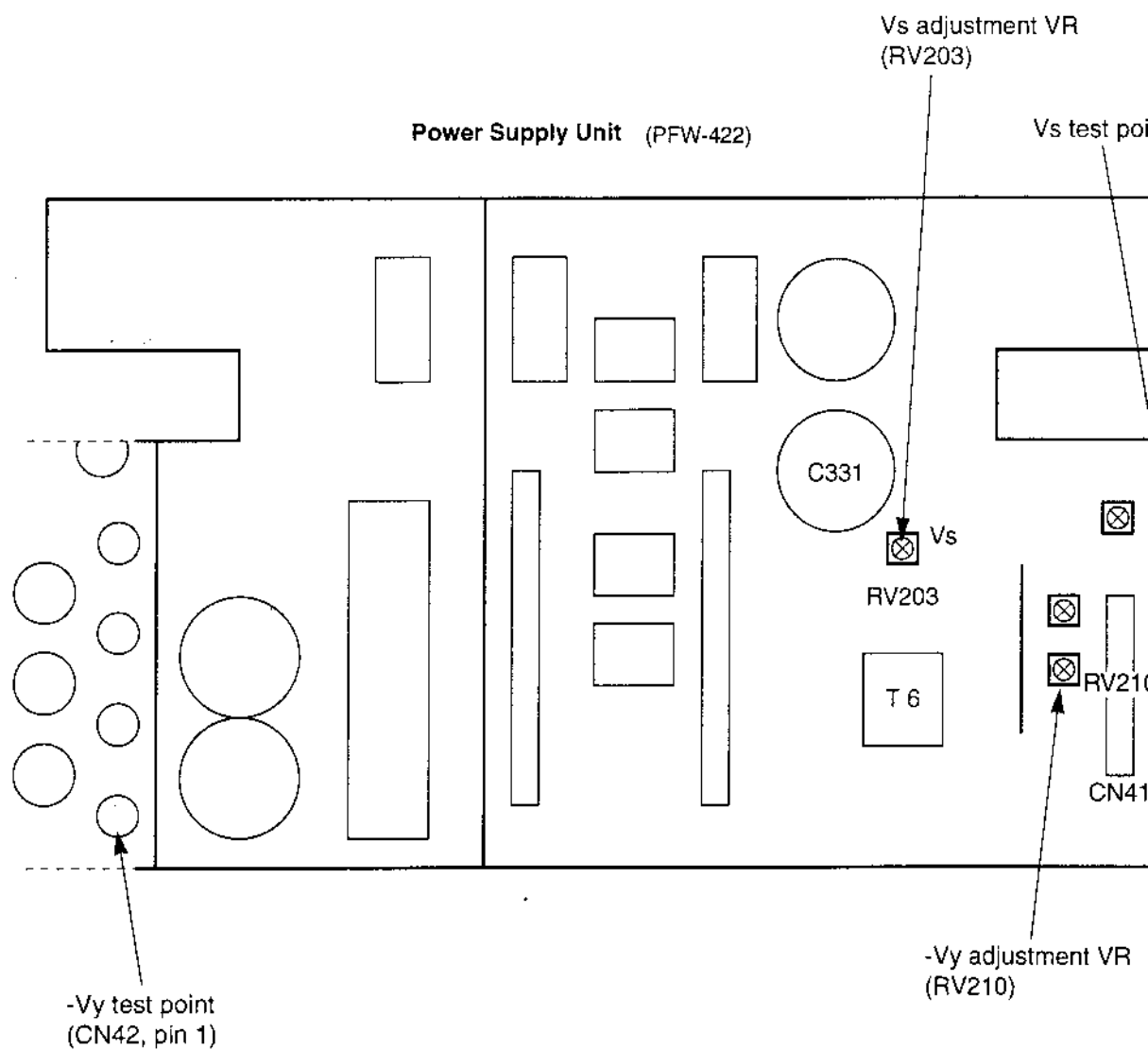
When the Power Supply and PDP units are replaced, Vs and -Vy must be adjusted.

Preparation : Heat-run for 5 minutes with a white pattern in the wide mode.

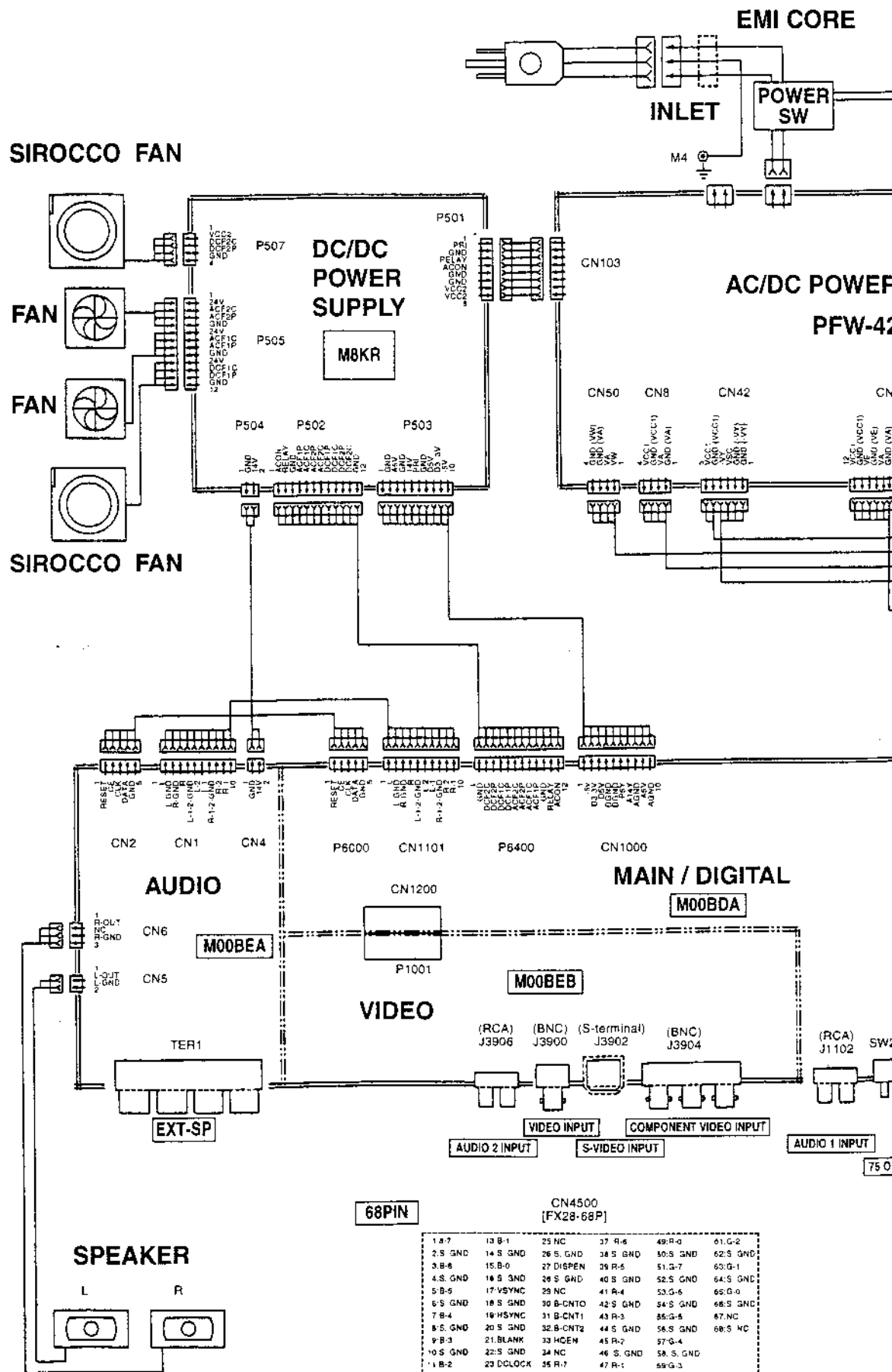
Adjustment : Adjust Vs and -Vy in the no-signal state (Black picture).

Test and adjustment points : Refer to the drawing below.

Adjustment value : Within $\pm 0.1V$ of the voltage indicated on the label on the PDP unit.



GENERAL CONNECTION DIAGRAM



RE

OPTICAL FILTER

PDS4213 : Glass 2.6 Ω T2.5 985 x 585
PDS4214 : Mesh T2.5 985 x 585

POWER SUPPLY FW-422

PLASMA DISPLAY PANEL UNIT PPF42C10660UE-41

